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[J. Marrevee](#)

December 1982 [SI GMETRI CS Performance Evaluation Review](#), Volume 12 Issue 1

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- 2 [Methods to speed up error back-propagation learning algorithm](#)

[Dilip Sarker](#)

December 1995 [Computing Surveys \(CSUR\)](#), Volume 27 Issue 4

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**Keywords:** adaptive learning rate, artificial neural networks, conjugate gradient method, energy function, error back-propagation learning, feedforward networks, learning rate, momentum, oscillation of weights, training set size

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